AUTODOC CLUB

How to change rear brake discs on **BMW E90** – replacement guide

VIDEO TUTORIAL

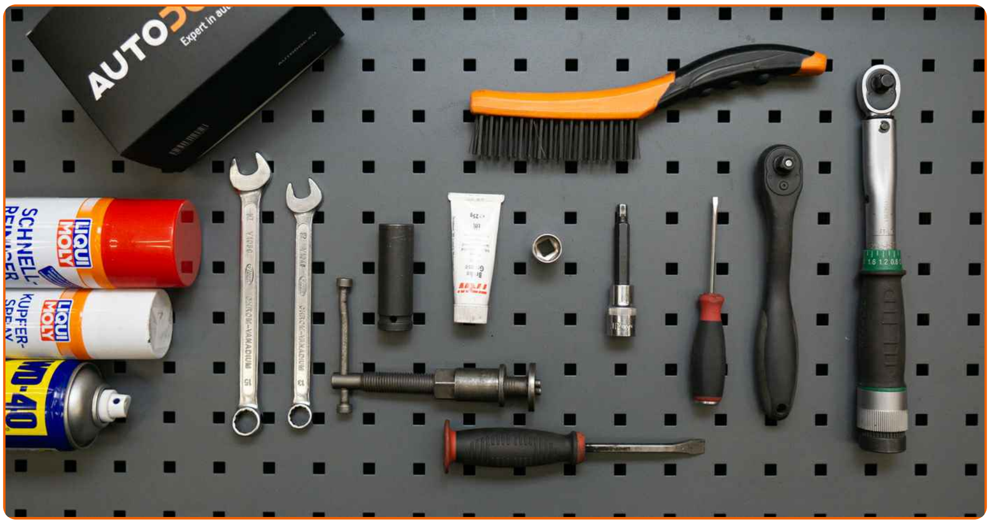


Important!

This replacement procedure can be used for:
BMW 3 Saloon (E90) 320i 2.0, BMW 3 Saloon (E90) 318d 2.0, BMW 1 Hatchback (E81) 118i 2.0, BMW 1 Hatchback (E81) 120i 2.0, BMW 3 Saloon (E90) 316i 1.6, BMW 3 Saloon (E90) 316d 2.0, BMW 3 Coupe (E92) 316i 1.6, BMW 1 Hatchback (E87) 118i 2.0, BMW 1 Hatchback (E87) 120i 2.0

The steps may slightly vary depending on the car design.

REPLACEMENT: BRAKE DISCS – BMW E90. TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Brake caliper guide pins grease
- Copper grease
- Sealant
- Combination spanner #13
- Combination spanner #15
- Drive socket # 16
- HEX bit No.H6.
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Brake caliper wind back tool
- Flat Screwdriver
- Crow bar
- Wheel chock

BUY TOOLS

AUTODOC recommends:

- Replace the brake disks on the car BMW E90 in complete set for each axis. Regardless of the state of components. This will ensure even braking.
- The replacement procedure is identical for both brake disks on the same axle.
- When changing the brake discs, always replace the brake pads.
- Please note: all work on the car – BMW E90 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Open the bonnet. Unscrew the brake fluid reservoir cap.



2 Secure the wheels with chocks.



3 Loosen the wheel mounting bolts. Use wheel impact socket #17.



4 Raise the rear of the car and secure on supports.

5 Unscrew the wheel bolts.



AUTODOC recommends:

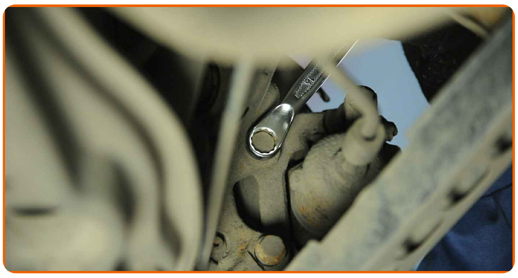
- Important! Hold the wheel while unscrewing the fastening bolts. BMW E90

6 Remove the wheel.



7 Clean the brake caliper fasteners. Use a wire brush. Use WD-40 spray.

8 Unscrew the brake caliper fastening. Use a combination spanner #13. Use a combination spanner #15.



9 Spread the brake pads. Use a crowbar.

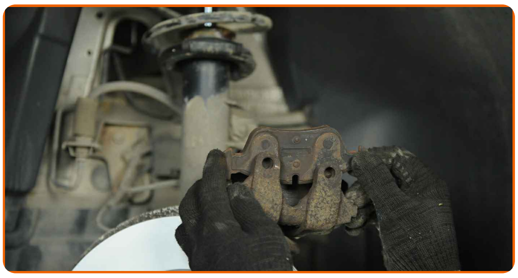
10 Remove the brake caliper.



Replacement: brake discs – BMW E90. AUTODOC recommends:

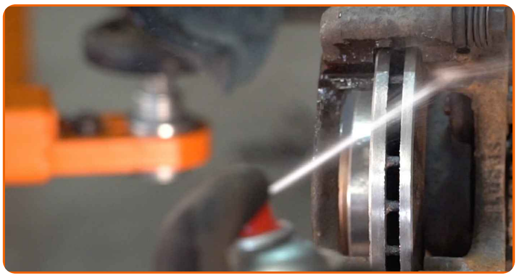
- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

11 Remove the brake pads. Use a flat screwdriver.



12 Remove the brake pads retaining clips. Use a flat screwdriver.

13 Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.



14 Unscrew the caliper bracket fastening. Use a drive socket #16. Use a ratchet wrench.



15 Remove the fastening bolts (2 pieces).

16 Remove the caliper bracket.



17 Clean the brake disc fasteners. Use a wire brush. Use WD-40 spray.

18 Unscrew the brake disc fastening. Use HEX No.H6. Use a ratchet wrench.



19 Remove the brake disc.



20 Clean the hub. Use a wire brush. Treat the contacting surface. Use copper grease.



21 Install the brake disc.



22

Tighten the brake disc fastening. Use HEX No.H6. Use a torque wrench. Tighten it to 16 Nm torque.



23

Clean the brake caliper bracket from dirt and dust. Use a wire brush. Use a brake cleaner.

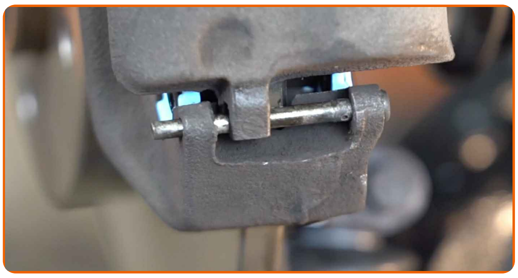


AUTODOC recommends:

- Replacement: brake discs – BMW E90. After applying the spray, wait a few minutes.

24

Remove the guide pins from the brake caliper.



25

Clean the brake caliper guide pins. Use a brake cleaner.

Replacement: brake discs – BMW E90. Tip from AUTODOC:

- After applying the spray, wait a few minutes.

26 Treat the brake caliper guide pins. Use the brake caliper guide pin grease.

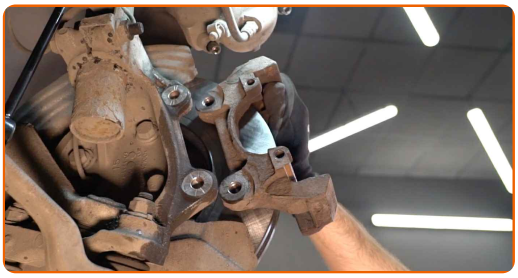
27 Screw in the guide pins.



28 Treat the fastening bolts. Use a wire brush. Use a sealant.



29 Install the brake caliper bracket.



30 Install the fastening bolts (2 pieces).

31 Tighten the brake caliper bracket. Use a drive socket #16. Use a torque wrench. Tighten it to 65 Nm torque.



32 Install the brake pads retaining clips.



33 Install the brake pads. Use a flat screwdriver.



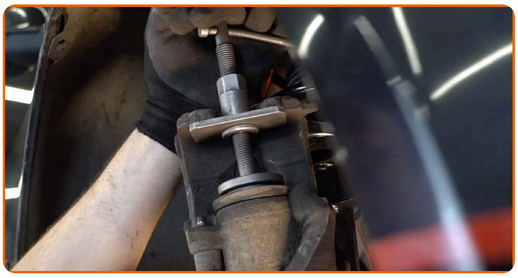
34 Treat the brake caliper piston. Use a brake cleaner.



AUTODOC recommends:

- Replacement: brake discs – BMW E90. After applying the spray, wait a few minutes.

35 Press in the brake caliper piston. Use brake caliper wind back tool.



36 Install the brake caliper and fix it. Use a combination spanner #15. Use a drive socket #13. Use a torque wrench. Tighten it to 35 Nm torque.



37 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



38 Clean the brake disk surface. Use a brake cleaner.



Replacement: brake discs – BMW E90. AUTODOC experts recommend:

- After applying the spray, wait a few minutes.

39 Install the wheel.



AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. BMW E90

40 Screw in the wheel bolts. Use wheel impact socket #17.



41 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 120 Nm torque.



Replacement: brake discs – BMW E90. AUTODOC experts recommend:

- Without starting the engine, press the brake pedal several times until you feel significant resistance.

42 Remove the jacks and chocks.



Replacement: brake discs – BMW E90. Professionals recommend:

- Check the brake fluid level in the expansion tank and refill if necessary.

43 Tighten the brake fluid reservoir cap. Close the hood.



WELL DONE!

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